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## WHAT IS CLAIMED IS:

- A method for transferring data, comprising:
   providing a socket to create a virtual connection to transfer data between
   a first application process residing on a computer and a computer network; and
   releasing the socket when the data has finished transferring to allow the
   virtual connection to transfer data between a second application process and the
   computer network.
- 10 2. The method as set forth in claim 1, further comprising providing a plurality of sockets to create additional virtual connections between application processes and the computer network.
  - 3. The method as set forth in claim 2, further comprising assigning each of the application processes to an available one of the plurality of sockets.
  - 4. The method as set forth in claim 3, wherein each of the plurality of sockets is determined not to be in use prior to the assigning.
- 20 5. The method as set forth in claim 3, wherein assigning is performed using at least one of the following assignment techniques: (a) round robin; (b) random; (c) user defined.
- 6. A computer-readable medium having computer-executable instructions for performing the method as set forth in claim 1.
  - 7. A method for transferring data between a computer having a processor and a computer network, comprising:
- creating a plurality of sockets capable of providing virtual connections

  between processes executing on the processor and the computer network; and
  assigning each of the processes to an available socket of the plurality of
  sockets in response to a request for a socket.

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- 8. The method as set forth in claim 7, wherein assigning is performed using a round robin socket assignment technique.
- 9. The method as set forth in claim 7, wherein assigning is performed using5 a random socket assignment technique.
  - 10. The method as set forth in claim 7, wherein assigning is performed using a user-defined assignment technique.
- 10 11. The method as set forth in claim 7, wherein the data is divided into separate data units.
  - 12. The method as set forth in claim 7, wherein the data are incoming network requests and the incoming network requests are demultiplexed into separate network requests corresponding to a data unit.
  - 13. A data transfer system for transferring network data, comprising: a plurality of sockets for providing a virtual connection between a computer and a computer network;

a plurality of threads for processing the network data, each one of the plurality of threads capable of being assigned one of the plurality of sockets; and a parallel sockets module in communication with the plurality of sockets and the plurality of threads that provides parallel transfer of the network data using the plurality of sockets.

- 14. The data transfer system as set forth in claim 13, wherein the parallel sockets module further comprises a network data processor that divides the network data into a plurality of data units.
- 30 15. The data transfer system as set forth in claim 13, wherein the parallel sockets module further comprises an assignment module that uses a socket assignment technique to assign at least one of plurality of threads to an available one of the plurality of sockets.

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- 16. The data transfer system as set forth in claim 15, wherein the parallel sockets module further comprises a binding module that binds the assigned thread to the assigned socket.
- 5 17. The data transfer system as set forth in claim 15, wherein the socket assignment technique is a round robin technique that assigns the thread to a first available socket.
- 18. The data transfer system as set forth in claim 15, wherein the socket assignment technique is a random technique that assigns the thread randomly to an available one of the plurality of sockets.
  - 19. The data transfer system as set forth in claim 15, wherein the socket assignment technique is a user-defined technique that assigns the thread to an available one of the plurality of sockets as determined by a user.
  - 20. A computer-implemented method for transferring data between a network server and a computer network, comprising:

providing a socket having a virtual connection between first server process on the network server and the computer network;

determining that the socket is available;

binding the first server process to the available socket to facilitate the transfer of data; and

making the socket available to a second server process when the data

25 has finished transferring.

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